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APPLICATION NUMBER FILING DATE FIRST NAMED APPLICANT ATTORNEY DOCKET NO.

08/538,887

10/03/95

STEARNS

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B3M1/0807

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RAMIREZ E

ART UNIT PAPER NUMBER

2414

DATE MAILED:

08/07/97

This is a communication from the examiner in charge of your application. COMMISSIONER OF PATENTS AND TRADEMARKS

OFFICE ACTION SUMMARY	
☐ Responsive to communication(s) filed on	
☐ This action is FINAL.	•
☐ Since this application is in condition for allowance except for formal matters, paccordance with the practice under Ex parte Quayle, 1935 D.C. 11; 453 O.G.	213.
A shortened statutory period for response to this action is set to expire whichever is longer, from the mailing date of this communication. Failure to response application to become abandoned. (35 U.S.C. § 133). Extensions of time ma 1.136(a).	ond within the period for response will cause
Disposition of Claims	
\mathbf{O}	is/are pending in the application.
Of the above, claim(s)	is/are withdrawn from consideration.
Ctaim(s)	
[] Claim(s) / - 2/6	is/are rejected.
☐ Claim(s)	•
☐ Claims	are subject to restriction or election requirement.
Application Papers	
☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-94	8.
The drawing(s) filed on is/a	are objected to by the Examiner.
☐ The proposed drawing correction, filed on	is approved disapproved.
☐ The specification is objected to by the Examiner.	
☐ The oath or declaration is objected to by the Examiner.	·
Priority under 35 U.S.C. § 119	
☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 1	19(a)-(d).
☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority docu	ments have been
received.	
received in Application No. (Series Code/Serial Number)	· ·
$\hfill\Box$ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
*Certified copies not received:	
$\hfill \Box$ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §	119(e).
Attachment(s)	
Notice of Reference Cited, PTO-892	
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s)	<u>.</u>
☐ Interview Summary, PTO-413	·
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	

☐ Notice of Informal Patent Application, PTO-152

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1. This application has been examined.

- 2. Claims 1-15 have been compared to the claims in application 08/489,488 (filed by Stearns on 6/12/95) and are identical Thus we have two applications claiming the same invention.
- A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

- 4. Claims 1-15 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1-15 of copending Application No. 08/489,488. This is a <u>provisional</u> double patenting rejection since the conflicting claims have not in fact been patented.
- 5. The rejections of the Examiner of Application 08/489,488 are hereby incorporated by reference. The following is a reproduction for the convenience of Applicant.
- 1. The disclosure is objected to because of the following informalities: -On page 10, line 7, numeral number " 12" should be changed to "2". -On page 12, lines 34 and 35, sequence of frames "B3" and "B6" are not shown on Figure 6. Also, on page 13, line 11, frame "B5" is not shown on figure 7. -On page 16, line 28, the phrase " IQ matrix, #104" must be stated as an IQ matrix in the drawing of Figure 8. Appropriate corrections are required. Drawings

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2. This application has been filed with informal drawings which are acceptable for examination

puroses only. Formal drawings will be required when the application is allowed.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as

set forth in section 102 of this title, if the differences between the subject matter sought to be

patented and the prior art are such that the subject matter as a whole would have been obvious at

the time the invention was made to a person having ordinary skill in the art to which said subject

matter pertains. Patentability shall not be negatived by the manner in which the invention was

made.

4. Claims 1,3,4, 5, 6, 7, 8, 10, 11, 12, 13, 14 and 15, are rejected under 35 U.S.C. 103(a) as

being unpatentable over Purcell et al (5,379,356) in view of Normile et al (5,212,742)

With regard to claim 8, Purcell et al discloses a decompression system comprising:

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-A secondary processor (i.e., co-processors) - Figure 2, # 202-204 -Means for decompressing in a processor at least a system layer of the compressed data, wherein other data layers of the set are decompressed in the secondary processor (Figure 2, #200). Information of compressed or decompressed data are stored in a storage device (memory) in an electronic form and accessed by the processor. The processor forms the paths for the operations among the coprocessors and controls all the activities by executing the data to or from the coprocessors.

Purcell et al discloses all the claimed subject matter except a host processor and a peripheral bus connected to the host processor. However, Normile et al clearly discloses a host processor (Figure 4, #410) and a peripheral bus (i.e., Bus, Figure 4, #425) connected to the host processor. The host processor taught by Normile et al processes at least a system layer of compressed data. That is, the host processor reads and determines one complete frame of compressed data from a disk or memory and transfers the data to the coprocessors (see column 11, lines 61-64; column 12, lines 66-68; and column 13, lines 45-47).

Devices that are in direct control of the processing unit are said to be connected on-line. The peripheral bus (i.e. Bus) transports instruction and information from the processor to the peripheral device and vice versa.

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Therefore, it would have been obvious to one of ordinary skill in the art to use the system as taught by Normile et al into Purcell et al's system in order to process the compressed or decompressed data by using a separate processor (i.e., host) and a peripheral bus (i.e., cpu bus) to transfer information between the processors and from the processors to the outside environment, thereby, efficiently utilizing all available resources.

Claim 1, is rejected the same as claim 8 except claim 1 is a method claim. Hence, arguments similar to that presented above for claim 8 is applicable to claim 1.

With regard to claims S and 12, Purcell et al clearly uses a video signal (i.e., data) in his signal processing system. However, the use of video and audio data in compression and decompression technique is a well known practice (official notice). Also, a video data usually comprises an audio data in many of the video programs.

With respect to claims 13, Purcell et al discloses a decompression system including:

-Means for variable length decoding--- (column 113, lines 40-41).

-Means for inverse quantizing (i.e., de-quantizing) the data---Figure 1, #106. Also the dequantized data is applied to the inverse discrete cosine transform (Figure 1, #107).

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-Means for inverse zig-zagging the decoded data (Figure 3, #308).

Claim 6, is rejected the same as claim 13 except claim 6 is a method claim. Therefore, arguments similar to that presented for claim 13 is applicable to claim 6.

With regard to claim 14, Purcell et al clearly shows a motion vector compensation means as part of the decompression operation (Figure 2, #204).

Claim 7, is rejected the same as claim 14 except claim 7 is a method claim. Therefore, arguments similar to that presented above for claim 14 is applicable to claim 7. With regard to claim 10, Purcell et al shows a secondary processor (i.e., coprocessors) which includes a dedicated decompression circuitry for decompression of data which has been compressed using MPEG compression (Figure 2, #202-204).

Claim 3, is rejected the same as claim 10 except claim 3 is a method claim. Therefore, arguments similar to that presented above for claim 10 is applicable to claim 3.

With regard to claim 11, Purcell et al discloses a decompressing means for decompressing a book layer of the set (i.e., group of macro-blocks), column 10, lines 37-42.

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Claim 4, is rejected the same as claim 11 except claim 4 is a method claim. Thus, arguments

similar to that presented above for claim 11 is applicable to claim 4.

With regard to claim 15, Purcell shows a frame buffer connected to the secondary processor (i.e.,

output after it is processed, in a decoding environment) column 11, lines 17-22. 5. Claims 2 and 9,

are rejected under 35 U.S.C. 103(a) as being unpatentable over Purcell et al in view of Normile et

al as applied to claim 8 above, and further in view of Harney et al (5,335,321).

With regard to claim 9, Purcell et al (as modified by Normile et al) discloses a decompressing

means, a host processor, a coprocessor (i.e., secondary processor) and a peripheral bus. He does

not teach a graphic accelerating secondary processor. However, Harney et al discloses a graphics

accelerator subsystem in his video signal processing system (Figure 1, #31). Therefore, it would

have been obvious to one of ordinary skill in the art to incorporate the system as taught by Harney

into Purcell et al's (as modified by Normile et al) system in order to increase the processing speed

while maintaining adequate decompression.

Claim 2, is rejected the same as claim 9 except claim 2 is a method claim. Thus, arguments similar

to that presented above for claim 9 is applicable to claim 2.

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- The disclosure of the present application and that of 08/488,489 are identical. Thus presumably there is support in the earlier applications for claims 16-26. Further, since there is only one common inventor a rejection under 35 USC 102(e) is applicable.
- 7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- 8. (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.
- 9. Claims 16-26 are provisionally rejected under 35 U.S.C. 102(e) as being anticipated by copending Application No. 08/488,489 which has a common inventor with the instant application.

Based upon the earlier effective U.S. filing date of the copending application, it would constitute prior art under 35 U.S.C. 102(e), if patented. This provisional rejection under 35 U.S.C. 102(e) is based upon a presumption of future patenting of the copending application.

This provisional rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the copending application was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

This rejection may <u>not</u> be overcome by the filing of a terminal disclaimer. See *In re Bartfeld*, 17 USPQ2d 1885 (Fed. Cir. 1991).

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to

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Primary Examiner Ellis B. Ramirez, Esq.,

whose telephone number is (703) 305-9786. The examiner can normally be reached on Monday-Friday from 7:30 AM to 6:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, E. Voeltz, can be reached on (703) 305-9714. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3800.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 308-9051, (for formal communications intended for entry)

Or:

(703)308-5356 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

ELLIS B. RAMIREZ PRIMARY EXAMINER GROUP 2400